



DATE: April 6, 1984

TO: Division File

FROM: Tom Powell

US EPA RECORDS CENTER REGION 5



412346

SUBJECT: LPC 11909001 - Madison County - Roxana/SCA-Barton

On March 29, 1984, an anonymous caller contacted this regional office and spoke with Ken Mensing about unpermitted wastes from the Shell refinery in Wood River being taken to the SCA-Barton Landfill. The caller requested that the Agency investigate, saying that he would call back. (See telephone conversation record.)

On March 30, 1984, the anonymous caller again contacted this office. He indicated that the hauling is again taking place and asked that we look into the situation.

Upon this writer's return to the office, on March 30, from other unrelated field visits, Pat McCarthy requested that I investigate. Leaving this regional office at approximately 1:35 p.m., I arrived at the gate of the landfill at 2:05 p.m. While on Wanda Road, on route to the landfill, it was observed that a light purplish material was being spilled onto the road particularly upon the rough, bumpy areas of the road. This writer then noted a tandem dump truck leaking the material from beneath the truck's tailgate. I followed this truck all the way to the landfill entrance. The truck was a red Ford tandem dump, Illinois License number 39-106. The truck's doors were lettered with the name "Gary Wright". I asked the driver, while the truck was stopped at the ticket takers office, if his name was Gary Wright and he answered in the affirmative. I then asked him if he was aware that he was dripping/spilling part of his load on Wanda Road. He stated that he was not aware of this situation, so we walked to the back of his truck so that I could show him from hence the spillage was occurring. While the truck was stopped, it was observed that some of the material had fallen onto the ground. I then asked the driver if I could obtain a sample of the material that he was hauling and he said yes. I then obtained a sample at 2:15 p.m. that was labeled "Sample #1". (See lab sheets.) This truck, while it was stopped at the guard house, had it's right front tire go flat; he therefore did not attempt to move the truck all the while that I was present at the landfill. Although I am not sure if this vehicle was an ICC carrier, it did have a special waste hauler decal on the body, however, it was expired. The special waste hauler number on the truck was 1016/002 with an expiration date decal of 9/30/83.

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STATE OF ILLINOIS

April 6, 1984

While reviewing some paper work in the guard house; i.e. special waste authorization numbers, manifests, etc., a second truck arrived. This truck was lettered with the name Ralph Moehle on it's doors. Illinois license number 46-280. There was no special waste hauler decal visible, however, this truck was lettered as an ICC carrier, ILL17992MCC. I asked the driver, if his vehicle was a licensed waste hauler, he looked at me puzzled for a moment, and then responded with a smart remark. After reviewing the manifest for this truck, I then contacted the regional office and spoke with Pat McCarthy. I requested that Mr. McCarthy check the supplemental permit that Shell was using to haul the material. The Permit Authoriation Number is 822127. Mr. McCarthy stated that the permit, which was issued on October 12, 1982, was for a "one time" transportation frequency, although the Permit Section issued the permit to be valid for 3 years. I also pointed out to Mr. McCarthy of the manifest discrepancy in that HelmKamp Construction Co. was listed on the manifest as the hauler, along with the numerical prefix, but in actuality a series of independents were transporting the waste. With this information in hand, I requested that Mr. McCarthy contact Shell to inform them of the situation.

Shortly after talking with Mr. McCarthy, a third truck arrived hauling the waste from Shell. This third truck was a blue Ford tandem dump, Illinois license number 43-512, the name "Kuberski" appeared on a decal placed on the doors. No special waste hauler decals were visible on this vehicle. It is unknown if this vehicle is an ICC hauler.

After being at the site for nearly an hour, I was concerned that these trucks would continue to transport the waste. Concerned with the spillage on the road and not knowing the condition of the road, I contacted Illinois State Police to dispatch someone to the scene in an attempt to document the spillage/leakage that was occurring. The ISP dispatcher stated that Trooper Rick Carter would respond. Not wanting to miss Trooper Carter, I left the landfill for approximately 10-15 minutes. I spotted Trooper Carter, and we briefly discussed what had been happening.

Shortly after my returning to the site, Mr. Carr called the landfill office at 3:13 p.m. He explained that this is a clean-up of soil from the acid spill that occurred earlier in the year within the fire wall of Tank #49. I said that I understood where the material was coming from, but that there were questions about the supplemental permit that Shell was using, as well as the manifest problems, the truckers who were hauling the waste and the spillage on Wanda Road. He said he was disappointed that this kind of situation had developed, but that he would get some answers and get back with me.

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April 6, 1984

Shortly after 3:30, Chuck Emde, District Manager of the SCA Services Landfills, arrived at the site. I explained the questionable supplemental permit that Shell was using, as well as the manifest problems. He was visibly distraught and stated that these types of inconsistencies cannot be tolerated. He also stated that if SCA could be of any assistance in rectifying the problem, that we should contact him.

At 3:44 p.m. Mr. Rinehart of Shell called the landfill office and requested to speak with me. I explained the situation, as I had done with Mr. Carr, about the spillage on the road, the "questionable" use of the supplemental permit, the manifest discrepancy and the unpermitted haulers transporting the waste. Rinehart stated that hauling for this day had been completed and that Shell would speak with Helmcamp about the hauler permits before any more material left the refinery.

After speaking with Mr. Rinehart, I reviewed the manifests and SCA gate tickets from the loads that were delivered from Shell. The manifests that were used on Friday, March 30, 1984 are as follows:

0959114	0959121
0959115	0959122
0959117	0959123
0959118	0959124
0959119	0959125
0959120	

SCA gate tickets and driver's signatures are as follows:

133052	Ralph Moehle
133057	Gary Wright
133007	Ralph Moehle
133008	Ralph Moehle
133017	Ralph Moehle
133031	Ralph Moehle
133038	Gary Wright
133041	Ralph Moehle
132991	Hass - ?
133043	Ted Kuberski

(Each load was listed as 10 cubic yards.)

Eleven manifests were delivered, while only ten gate tickets were completed, because the truck that had developed the flat tire was not allowed to dump. Chuck Emde informed the driver that the landfill could not accept the load and that as soon as his tire was fixed he would have to take the load back to Shell.

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April 6, 1984

I informed Chuck Emde that I would like to obtain samples of the material from the site's active area. Mr. Emde was agreeable, but indicated that he would like to split the samples. With this in mind, we proceeded to the active area, procuring three (3) samples for Agency analysis. (Only two (2) samples, #2 and #3, were split with Chuck Emde of SCA - see lab sheets.) Preliminary field tests with pH paper indicated a pH of less than 2. This was the first indication that the waste could possibly be hazardous. The question that immediately arose was; what to do now that the material is co-disposed if it is hazardous? Mr. Emde was told to apply daily cover and to make sure that he and/or his operators know exactly where the material was disposed. Gale Dille, the equipment operator of the site, indicated that the material that was deposited today should not be hard to find; however, he said tracking the material that was received on the previous day(s) would be most difficult.

With the samples procured, and instruction given to daily cover the refuse and to outline the area that was filled, this writer departed the site at 5:17 p.m. On the return trip, a crew from Shell was cleaning Wanda Road of the spillage that had occurred from the trucks. A rubber tire end loader and a pickup truck were being used to scrap and collect the spillage. Dirt was then being thrown on the road as a quasi absorbent, as well as an attempt to cover the spillage.

On April 2, 1984, Chuck Emde called this office with pH results from the samples that were split. Mr. Emde stated that Laclede Gas Laboratory ran the samples and the pH was 1.5. He went on to say that E.P. Toxic results will be completed in 3-4 days. Emde also stated that Shell tried to haul more of the material to the landfill on April 2, but that the loads were refused.

Also on April 2, 1984, Barbara Jarrett representing Red's Truck Service, one of the independents, called the office to say that her husband travelled to Springfield in an attempt to obtain special waste hauler decals. She said that Steve Colantino indicated that a hauler permit may not be necessary, if the hauler is an ICC carrier. I explained that an ICC carrier can transport waste pursuant to a bill of lading, however, it is my interpretation that a manifest does not replace a bill of lading, and that if the load is a hazardous waste, a manifest must be completed and accompany the load.

On April 3, 1984, this writer contacted Bill Carr of Shell. Mr. Carr was told that preliminary field tests indicate that the material may be a hazardous waste, but that the analysis has not been received from our lab. (This was the first time that Shell was informed that the material could be a hazardous waste.) I told Mr. Carr that the Agency will be reviewing the situation and that a determination of subsequent procedures will be forthcoming.

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April 6, 1984

In summary, the following questions about this incident arise:

1. Was the supplemental permit Shell was using valid - given the facts that the material had a one time transportation frequency and that the annual volume authorized was 45 cubic yards, when in 1982 Shell sent out approximately 30 cubic yards to the site and on March 29, 1984 the amount received on this day alone was listed as 100 cubic yards. (This does not include wastes received on previous days.)
2. Manifest discrepancies; in that Helmkamp was listed as the hauler, with their 4 digit prefix typed on the manifest and the remaining 3 digits being left blank.
  - 2A. Independents with no special waste license actually transporting.
3. Spillage of the material on Wanda Road.
4. The preliminary field tests (and tests conducted by SCA) show that the material is hazardous. The office is awaiting analytical results from our lab.

TEP:jlr

Attachments

cc: Southern Region  
Phil Van Ness  
Tom Cavanagh

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STATE OF ILLINOIS

STATE OF ILLINOIS  
ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF LAND POLLUTION CONTROL

TELEPHONE CONVERSATION RECORD

MADISON COUNTY - LPC

ROXANA SCA-BARTON SITE INVENTORY NO. 1190900

Re: DISPOSAL OF HAZARDOUS WASTES

Conservation With: ANONYMOUS GENTLEMAN

( ) I Called Party

☒ Party Called Me

DATE: MARCH 29, 84 TIME: 4:30 P.

What I Said:

- ② I ASKED HIM HOW HE KNEW THIS.
- ④ I ASKED HIM WHAT KIND OF WASTE IT IS.
- ⑥ I ASKED HIM IF THE WASTE WAS A LIQUID.
- ⑧ I ASKED HOW LONG THIS HAS BEEN GOING ON.
- ⑩ I TOLD HIM THANKS FOR CALLING AND THAT WE WOULD CHECK OUT HIS COMPLAINT.

What Other Party Said:

- ① THE MAN STATED THAT HE DESIRED TO REMAIN ANONYMOUS.
- ③ HE SAID HE COULD NOT GO INTO DETAIL, BUT THAT HE KNOWS THAT IT IS GOING ON AT THE BARTON SITE WITHOUT A PERMIT.
- ⑤ HE SAID IT WAS ACID FROM SHELL OIL CO., WOOD RIVER.
- ⑦ HE SAID NO, IT WAS DIRT MIXED WITH ACID. HE SAID IT WAS HAULED BY DUMP TRUCK.
- ⑨ HE SAID THAT HELMKAMP WAS CONTRACTING OUT THE HAULING.
- ⑪ HE SAID FOR THE PAST FEW DAYS AND THAT IT WOULD PROBABLY BE COMPLETED TOMORROW.

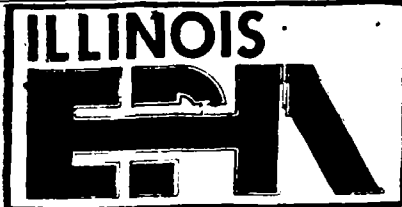
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EPA - DLPC  
STATE OF ILLINOIS

Title:

Kenneth J. Menendez  
EPS IV



# Environmental Protection Agency

2200 Churchill Road, Springfield, Illinois 62706

217/782-6767

JANUARY 12, 1983

APPLICATION RECEIVED: 12/22/82

PERMIT NUMBER 822127-11909001

PERMIT ISSUED TO: SCA SERVICES OF ILL

P.O. BOX 698

GRANITE CITY, IL 62040

WASTE STREAM NUMBER 822127

PERMIT EXPIRES: 10/12/85

SCA SERVICES OF ILL

P.O. BOX 698

GRANITE CITY, IL 62040

WASTE CLASSIFICATION: NON-HAZARDOUS SUBJECT TO FEE

PERMIT TO RECEIVE THE INDICATED WASTE IS GRANTED.

THIS PERMIT IS GRANTED SUBJECT TO THE ATTACHED STANDARD CONDITIONS.

DISPOSAL SITE: [REDACTED]

EPA SITE NO.: 11909001

ANNUAL VOLUME AUTHORIZED:

45 CUBIC YARDS

DISPOSITION OF WASTE:

BULK WASTE (SOLID, LIQUID, POWDER, OR SLUDGE) MIXED WITH DAILY RECEIPT  
OF REFUSE ABOVE GRADE (CODISPOSAL)

ATTENTION: J. J. RINEHART

WASTE GENERATOR: [REDACTED]

EPA GENERATOR NO.: 11909000026

HWY 111

ROXANA

, IL 62084

SPECIAL CONDITIONS:

TEC:LJM

CC;SHELL OIL CO  
REGION: S

THOMAS E. CAVANAGH, JR.

*By Laws + Water Vols.*  
MANAGER, PERMIT SECTION  
DIVISION OF LAND POLLUTION CONTROL

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JAN 26 1982

E.P.A. - D.L.P.C.  
STATE OF ILLINOIS

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STATE OF ILLINOIS

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11



# Environmental Protection Agency

2200 Churchill Road, Springfield, Illinois 62706

217/782-6767

OCTOBER 19, 1982

APPLICATION RECEIVED: 09/21/82

PERMIT NUMBER R22177-11909001

PERMIT ISSUED TO: SCA SERVICES OF ILL

P.O. BOX 698

GRANITE CITY, IL 62040

WASTE STREAM NUMBER 622127

PERMIT EXPIRES: 10/12/85

SCA SERVICES OF ILL

P.O. BOX 698

GRANITE CITY, IL 62040

WASTE CLASSIFICATION: NON-HAZARDOUS NOT SUBJECT TO FLE

PERMIT TO RECEIVE THE INDICATED WASTE IS GRANTED.

THIS PERMIT IS GRANTED SUBJECT TO THE ATTACHED STANDARD CONDITIONS.

DISPOSAL SITE: [REDACTED]

EPA SITE NO.: 11909001

ANNUAL VOLUME AUTHORIZED:

15 CUBIC YARDS

DISPOSITION OF WASTE:

BULK WASTE (SOLID, LIQUID, POWDER, OR SLUDGE) MIXED WITH DAILY RECEIPT  
OF REFUSE ABOVE GRADE (CO-DISPOSAL)

ATTENTION: J. J. RINEHART

EPA GENERATOR NO.: 1190900026

WASTE GENERATOR: [REDACTED]

HWY 111  
RUXANA

IL 62060

TEC:LJK

THOMAS L. CAVANAGH, JR.

*By Thomas L. Cavanagh, Jr.*

MANAGER, PERMIT SECTION

DIVISION OF LAND POLLUTION CONTROL

CC: SHEL OIL CO  
REGION: S

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STATE OF ILLINOIS

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E.P.A. - D.L.P.C.  
STATE OF ILLINOIS

KM  
TP 12-3



This Agency is authorized to require this information under Illinois Revised Statutes, 1978 Chapter 111.1.2 Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

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SEP 21 1982

REFERENCE # L-363

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF LAND/NOISE POLLUTION CONTROL  
SPECIAL WASTE STATE OF ILLINOIS

CARD  
TYPE

(FOR AGENCY USE)

1 P S W C  
1 8

WASTE STREAM NUMBER  
(AUTHORIZATION)

822127  
8 13

TRANS  
CODE

DATE ENTERED

1 1 1 20

This application is a: (check one) ☒ New Application ☐ Renewal Waste Stream Number

This application is for waste: (check one) ☐ storage ☒ disposal ☐ treatment

APPLICANT (SITE)

SITE ADDRESS

APPLICANT ADDRESS

Name: Roxana - SCA/Barton

Name: SCA Services of Illinois

Address: Wanda Road

Address: 1838 N. Broadway

Madison St. Roxana IL 62084  
(county) (community) (state) (zip)

St. Louis Mo. 63102  
(county) (community) (state) (zip)

9 0  
6 7

1 IEPA

21 SITE CODE

1 1 9 0 9 0 0 1  
22 29

USEPA

SITE CODE

DISPOSAL METHOD

0 1  
30 31

TREATMENT METHOD

32 33

STORAGE METHOD

Site Contact Name Richard T. Kogler

Telephone (618) 606-9754

The undersigned hereby makes application for a supplemental permit for the storage, treatment or disposal of this waste stream and certifies that the information referenced herein is true, correct and current.

Signature Richard T. Kogler  
(Owner/Authorized Agent)

Signature Richard T. Kogler  
(Operator/Authorized Agent)

DATE 09/20/82

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FOR  
AGENCY USE

STATUS

34

START DATE

36 1 1 40

EXPIRATION DATE

4 1 40  
APR 09 1984

WASTE GENERATOR INFORMATION

E.P.A. - D.L.P.C.  
STATE OF ILLINOIS

PLANT ADDRESS

Name: Shell Oil Company

Name: Shell Oil Company

Address: Hwy 111

Address: Hwy 111

Madison Roxana IL 62084  
(county) (community) (state) (zip)

Madison Roxana IL 62084  
(county) (community) (state) (zip)

Generator IEPA Code: 1 1 9 0 9 0 0 0 2 6  
26 35

Generator USEPA Code: NOVO-1952

Generator Contact Name: J. J. Pinehart

Telephone (618) 254-7371

Process/Operation Name: Petroleum Refining

Process Description: This waste is non-hazardous, neutralized dirt removed from an acid spill occurrence

Generic Waste Name: Neutralized Dirt From Acid Spill

IL 532-0474

ADM 1067 (Rev. 2/82)

(FOR AGENCY USE  $\frac{1}{1}$   $\frac{P}{2}$   $\frac{S}{3}$   $\frac{W}{4}$   $\frac{C}{5}$  WASTE STREAM NUMBER (AUTHORIZATION)

822127

TRANS  
CODE

DATE ENTERED

CARD  
TYPE

### WASTE CHARACTERISTICS

This waste is: (check one) ☐ Hazardous ☒ Non-Hazardous as defined by U.S.E.P.A. in the Resource Conservation and Recovery Act, and regulations adopted thereunder, and the Illinois Pollution Control Board in Title 35 - Subtitle G, Part 721.

USEPA Hazardous  
Waste Number(s)

Total Annual Waste Volume

Volume Units

Waste Phase

Transport Frequency

Waste Class  
(Agency Use)

1 = CUBIC YARDS  
2 = GALLONS

1 = SOLID  
2 = SEMI-SOLID  
3 = LIQUID  
4 = GAS  
5 = POWDERS

1 = ONE TIME  
2 = DAILY  
3 = WEEKLY  
4 = BI-WEEKLY  
5 = MONTHLY  
6 = BI-MONTHLY  
7 = QUARTERLY  
8 = SEMI-ANNUALLY

### COMPONENT NAME

### PERCENT

### COMPONENT NAME

### PERCENT

1 DIRT 50.0  
2 SODA ASH 43.0  
3 NEUTRALIZED ACID WASTE 7.0

4  
5  
6

Flash  
Point

Percent  
Acidity

Percent  
Alkalinity

pH

Total  
Solids

Solid Waste:

Fire Hazard

Corrosive

Reactive

### TOTAL (ppm)

### REACTIVE (ppm)

Sulfide 1 3  
Cyanide 0 1  
Phenol 1 4

Sulfide  
Cyanide

### METAL

### KEY

### EP TOXICITY (ppm)

### METAL

### KEY

### EP TOXICITY (ppm)

Ag 0 3  
As 0 5  
Ba 0 7  
Cd 0 9  
Cr 1 1  
ENDRIN 1 5  
METHOXYCHLOR 1 7  
2, 4 - D 1 9

Hg 0 4  
Pb 0 8  
Se 1 0  
LINDANE 1 6  
TOXAPHENE 1 8  
2, 4, 5 - TP 2 0

Laboratory Name:

SHELL OIL LABORATORY

Certification Number

Reviewed by:  
(Agency Use)

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STATE OF ILLINOIS

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**Shell Oil Company**  
Interoffice Memorandum

AUGUST 12, 1982

FROM: J. M. ROLLINS - ANALYTICAL CHEMIST - QUALITY ASSURANCE/  
ENVIRONMENTAL CONSERVATION - WOOD RIVER MANUFACTURING COMPLEX

TO: J. J. RINEHART - PURCHASING - WOOD RIVER MANUFACTURING COMPLEX

SUBJECT: NEUTRALIZED DIRT FROM ACID SPILL

The sample of the material neutralized dirt from acid spill was submitted to the Quality Assurance/Environmental Conservation Laboratory for solid waste characterization.

Analysis performed and reported (attachment) was in accordance with the Resource Conservation and Recovery Act 40 CFR 261.21 Characteristic of Ignitability, 261.22 Characteristic of Corrosivity, 261.23 Characteristic of Reactivity, and 261.24 Characteristic of Toxicity.

We certify the results of analysis for ignitability (261.21 a, 2), corrosivity (261.22 a, 1), reactivity (261.23 a, 2 and 5) and toxicity (261.24 a, Table 1 results for Arsenic, Barium, Cadmium, Chromium, Lead Mercury, Selenium and Silver) reported do not exhibit the characteristics of Ignitability, Corrosivity, Reactivity, or Toxicity.

Based on the laboratory analysis of this sample and our knowledge of the composition of neutralized dirt from acid spill, we conclude that this waste stream is not a hazardous waste.

*JmRollins*

J. M. Rollins

JMR:dm

Attachment

cc: J. D. Evans Jr.  
Quality Assurance File 481

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STATE OF ILLINOIS

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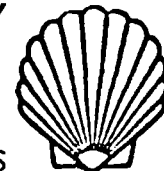
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STATE OF ILLINOIS



# LABORATORY REPORT

SHELL OIL COMPANY

WOOD RIVER MANUFACTURING COMPLEX, WOOD RIVER, ILLINOIS



DATE AUGUST 12, 1982

Sample: Neutralized dirt from acid spill

~~Date Sampled: July 23, 1982~~

Analysis performed in accordance with the Resource Conservation and Recovery Act 40 CFR; 261.21 Characteristic of Ignitability; 261.22 Characteristic of Corrosivity; 261.23 Characteristic of Reactivity; 261.24 (a) Characteristic of EP Toxicity and Standard Methods for the Examination of Water and Wastewater 14th Edition, 1975.

## Results of Analysis:

### (I) Characteristic of Ignitability (261.21);

A flash was not run on this sample, a solid.

### (II) Characteristic of Corrosivity (261.22);

A pH measurement was made on a 50% w/v slurry of the sample with distilled water with a result of 9.5.

### (III) Characteristic of Reactivity (261.23);

The sample was mixed 50% w/v with distilled water. No violent reaction was observed. Total acid soluble sulfides were found to be 0.265 mg/g (see attached report).

### (IV) Characteristic of EP Toxicity (261.24 [a]);

Arsenic, mg/l *	0.011	Nickel, mg/l	0.203
Barium, mg/l *	1.39	Zinc, mg/l	1.8
Cadmium, mg/l *	<0.001	Copper, mg/l *	0.178
Chromium, Total, mg/l	0.7		
Lead, mg/l	1.266		
Mercury, mg/l *	<0.005		
Selenium, mg/l *	<0.01		
Silver, mg/l *	0.071		

\* Analysis performed by Environmental Analysis, Inc., 3278 North Lindbergh, Florissant, Missouri 63033.

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E.P.A. — D.L.P.C.  
STATE OF ILLINOIS

J. M. Rollins  
Analytical Chemist

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E.P.A. — D.L.P.C.  
STATE OF ILLINOIS  
bc: J. E. Evans  
Quality Assurance File 481

3278 NO. LINDBERGH  
FLORISSANT, MO. 63033

ANALYTICAL-CHEMISTRY-RESEARCH-FIELD STUDIES

PHONE  
1-314-921-4488

ENVIRONMENTAL  
ANALYSIS  
INC.

Date: 8-6-82  
Report No. 10161  
Lab No. 238-14  
P.O. No. WRB-18

Mr. Jim Taylor  
SHELL OIL COMPANY  
Post Office Box 262  
Wood River, IL 62095

REPORT OF ANALYSIS

Subject: Analysis of samples in accordance with Standard  
Methods for the Examination of Water and Waste-  
water, 15th Edition, 1980.

Sample Identification:

- #1 - No. 0729116, 7-29-82. soda ash leach
- #2 - No. 0729117, 7-29-82. neutralized acid spill dirt
- #3 - No. 0729114, 7-29-82. sulfide on acid spill dirt
- #4 - No. 0729115, 7-29-82. FC600 fire foam + sand.

Results of Analysis:

	# 1	# 2	# 3	# 4
Arsenic, mg As/l	0.006	0.011	x	x
Barium, mg Ba/l	0.05	1.39	x	x
Cadmium, mg Cd/l	<0.001	<0.001	x	x
Mercury, mg Hg/l	<0.005	<0.005	x	x
Selenium, mg Se/l	<0.01	<0.01	x	x
Silver, mg Ag/l	0.044	0.071	x	x
Copper, mg Cu/l	0.085	0.178	x	x
Sulfide, (total) ug S/g	x	x	0.4	<0.4

Respectfully Submitted,

R. M. Ferris, Director

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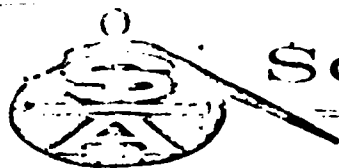
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022101  
SCIENTIFIC ASSOCIATES, INC.

6200 S. LINDBERGH, ST. LOUIS, MO. 63123 • TELEPHONE 314 487 6776

COPY

## REPORT OF ANALYSIS

SUBMITTED BY: Shell Oil Company  
P. O. Box 262  
Wood River, IL 62095  
Attn: Janice Rollins

DATE: August 9, 1982

MARKS: Sample #0803119  
Lab Test Form #212012

DATE RECEIVED:	August 4, 1982	YOUR P.O. NUMBER:	WRB1828
SAMPLE ANALYZED:	DIRT SAMPLE		
S. A. SAMPLE NUMBER:	316257		
ANALYZED FOR:	METHOD OF ANALYSIS:		
Total Acid Soluble Sulfides	1) Steam Distillation from Aqueous Acid Solution		
	2) I <sub>2</sub> Titration, as in standard methods for Water and Wastewater, 14th Ed, Page 505		

RESULTS:	FOUND:
Total Acid Soluble Sulfides	0.265 mg/gm.

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E.P.A. — D.L.P.C.  
STATE OF ILLINOIS

SCIENTIFIC ASSOCIATES, INC.

BY: 

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF LAND POLLUTION CONTROL  
CHAIN OF CUSTODY

I certify that the samples listed below were collected in my presence and that each sample bottle was sealed intact by me and that I wrote my initials and the date on the seal of each bottle.

Site Inventory No. LPC 11909001

County MADISON

Federal I.D. No. N/A

ROXANA 1 BARTON  
(Facility Name)

SAMPLING TEAM	Sample No.	Consisting of the Indicated No. of Bottles	Date Collected	Time Sealed	
	<u>1</u>	<u>1</u>	<u>3/30/84</u>	<u>3/30/84</u>	<u>5:45</u> AM/PM
	<u>2</u>	<u>1</u>	<u>3/30/84</u>		<u>5:46</u> AM/PM
	<u>3</u>	<u>1</u>	<u>3/30/84</u>		<u>5:47</u> AM/PM
	<u>4</u>	<u>1</u>	<u>3/30/84</u>		<u>5:48</u> AM/PM
					AM/PM
					AM/PM
					AM/PM
					AM/PM
					AM/PM
					AM/PM

Sealer's Signature Thomas E Powell Date 3-30-84 Time 5:50 AM/PM

Sampler(s) TOM POWELL

I certify I received the above samples, with each seal on each bottle intact and the sealer's initials written on each sample seal.

CARRIERS

Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time
<u>Tom Powell</u>	<u>4-2-84</u>	<u>3:30</u> AM/PM			
		AM/PM			
		AM/PM			
		AM/PM			
		AM/PM			
		AM/PM			
		AM/PM			
		AM/PM			
		AM/PM			

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LAB CUSTODIAN

I certify I received the above samples with each seal on each bottle intact, and the sealer's initials written on each sample seal. After recording these samples in the official record book, these same samples will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Signature \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_ A.M. P.M.

SW-846 Analytical Procedures Must be followed

Purpose

Program LP41

Sample #1

Time Collected:

2:15 PM

Lab #

SPECIAL ANALYSIS FORM

Date Collected:

3/30/84

Date Received

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF LAND/NOISE POLLUTION CONTROL

COUNTY:

Madison

FILE HEADING:

ROYANA / SCA Barton

FILE NUMBER: LPC

11909001

SOURCE OF SAMPLE: (Exact Location) Sludge-like sample taken from under tail

of tandem dump truck - as it was parked at guard house of land

truck was actually observed spilling/leaking its load on waste Re

Truck → Illinois license # 39 106 Red Ford Tandem Dump - name "Gary White

PHYSICAL OBSERVATIONS, REMARKS: appeared on doc. - Special waste hauler # 1016/

decals was present but expired on 9/30/82.

- Sludge-like taken off of truck as it was parked - black - oily

material - with a field pH of  $\leq 2$

TESTS REQUESTED:

test for corrosivity (if enough sample exists, then test for EP TOX)

COLLECTED BY:

Tom Powell

TRANSPORTED BY:

BOJ

LABORATORY

RECEIVED BY:

DATE  
COMPLETED:

DATE  
FORWARDED:

RECEIVED

APR 09 1984

E.P.A. - D.L.P.C.  
STATE OF ILLINOIS



Purpose — "SW-846 Analytical procedures Must be followed  
Program LP41

Time Collected: 4:35 PM

Lab #

Date Collected: 3/30/84

SPECIAL ANALYSIS FORM

Date Received \_\_\_\_\_

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF LAND/NOISE POLLUTION CONTROL

COUNTY:

MADISON

FILE HEADING:

ROYANA / SCA-BARTON

FILE NUMBER:

PC 11909001

SOURCE OF SAMPLE: (Exact Location) sludge-like sample taken from near mid  
point of active area of landfill. Taken from approx. 80' down  
gradient from highest point of fill - This material has been  
mixed w/ dry refuse - however sample was obtained from

PHYSICAL OBSERVATIONS, REMARKS: A accumulation of sample was split w/ Chubb  
of S

- Dark oily like material with pH  $\leq 2$

TESTS REQUESTED: test for consistency (if enough sample  
exists then test for EPTOX.)

COLLECTED BY:

Tom Bull

TRANSPORTED BY:

Bus

LABORATORY

RECEIVED BY:

DATE  
COMPLETED:

DATE  
FORWARDED:

RECEIVED

APR 09 1984

EPA-DLPC  
STATE OF ILLINOIS

SW 846 Analytical procedures must be followed —  
Sample = 3

purpose  
program

LP41

Time Collected: 4:40 PM

Lab #

SPECIAL ANALYSIS FORM

Date Collected: 3/30/84

Date Received

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF LAND/NOISE POLLUTION CONTROL

COUNTY:

Madison

FILE HEADING:

Roxana/SCA - Barton

FILE NUMBER:

LPC 11909001

SOURCE OF SAMPLE: (Exact Location) Sludge-like sample taken from

upper portions of active AREA. (Elevation) Taken from approx.

50' down gradient from highest point of L.I. Material had  
been mixed w/ dry refuse - Sample was obtained from an accumulation

PHYSICAL OBSERVATIONS, REMARKS: of the materials Sample was yellow/white  
of SCA

Dark oily like material w/ field pk of  $\approx 2$

TESTS REQUESTED:

Test for Corrosivity pH (if enough  
sample exists then test for EP TOX Also)

COLLECTED BY:

Tom Swartz

TRANSPORTED BY:

BUS

LABORATORY

RECEIVED BY:

DATE  
COMPLETED:

DATE  
FORWARDED:

RECEIVED

APR 05 1984

E.P.A. - D.L.P.C.  
STATE OF ILLINOIS

Report SW-846 Analytical procedures must be followed.

Program LP41

Sample # 1

Time Collected: 4:55

Lab #

Date Collected: 3/30/83

SPECIAL ANALYSIS FORM

Date Received

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF LAND/NOISE POLLUTION CONTROL

COUNTY:

Madison

FILE HEADING:

ROMANA/SCA-BARTON

FILE NUMBER:

LPC 11909001

SOURCE OF SAMPLE: (Exact Location) sludge-like sample taken from  
a point between where samples # 2 + 3 were collected  
this material had been mixed w/ dry refuse. Sample,  
however, was obtained from an accumulation of the material  
PHYSICAL OBSERVATIONS, REMARKS:

Dark oily-like material w/ field pH of  $\pm 2$

(RCRA)  
TESTS REQUESTED:

Test for Corrosivity pH - (if enough sample  
exists then test for EPTOX also)

COLLECTED BY:

Sam Powell

TRANSPORTED BY:

Bus

LABORATORY

RECEIVED BY:

DATE  
COMPLETED:

DATE  
FORWARDED:

RECEIVED

APR 09 1984